ABSTRACT

Process for securing a communication for a so-called
«hands-free» access system

The process for securing a communication between a
recognition device and an identification unit able to
communicate with the recognition device by a data
exchange determined by a recognition protocol, one of
these items of data corresponding to a reference event,
the process communicating in such a way that the
recognition device can authenticate the identification
unit so as to instruct the unlocking of openable panels
of a vehicle and/or permit the starting of a vehicle
and furthermore comprising:
- after an initialization time defined with
  respect to the reference event of the
  recognition protocol, a step of transmission by
  the recognition device of at least two
  transmission data,
- a step of transmission by the identification
  unit of at least two response data in response
  to the transmission data,
- a step of measuring a reaction time between the
  transmission of a data item and the reception
  of a corresponding response data item by the
  recognition device, and a step of verifying
  that the measured reaction time is less than a
  predetermined threshold
wherein the time interval between the transmission
of two successive transmission data and/or the
initialization time are/is made to vary randomly.

Figure to be published: Figures 4a and 4b